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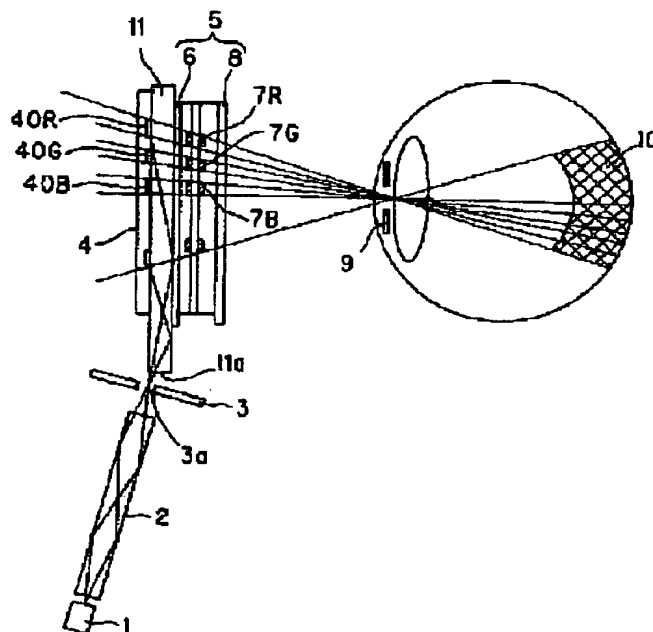
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TITLE : HEAD-MOUNTED TYPE COLOR VIDEO  
PROJECTION DEVICE, COLOR  
HOLOGRAM OPTICAL ELEMENT, AND  
MANUFACTURE OF COLOR  
HOLOGRAM OPTICAL ELEMENT



ABSTRACT : PROBLEM TO BE SOLVED: To provide a small head-mounted type color video projection device which can secure a necessary see-through property by installing a color filter function for a hologram optical element.

SOLUTION: Light from a light source 1 is converged by a convergence member 2 and it becomes a secondary point light source 3a by a pin hole 3 arranged in a convergent position. Divergent light from the secondary point light source 3a is made incident on the end face 11a of a waveguide 11. Light which is made incident on the end face 11a of the waveguide 11 moves the waveguide 11 while it is diverged and it is made incident on a color hologram optical element 4. The color hologram optical element 4 has a color filter function and a convergent function. Thus, the hologram optical element 4 having the color filter function and a liquid crystal display element 5 which does not have a color filter are combined. Thus, the transmission factor of the outside world is improved to about 60% and see-through property can be improved. Then, miniaturization is realized and mounting property to the head part becomes superior.

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